

10/502148

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
31 July 2003 (31.07.2003)

PCT

(10) International Publication Number
WO 2003/062101 A3

(51) International Patent Classification⁷: A47J 31/42

(21) International Application Number:
PCT/US2003/002069

(22) International Filing Date: 23 January 2003 (23.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/351,589 23 January 2002 (23.01.2002) US

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant and

(72) Inventor: CASWELL, Michael, R. [US/US]; 1744 N.E. 1st Street, Fort Lauderdale, FL 33301 (US).

Published:

— with international search report

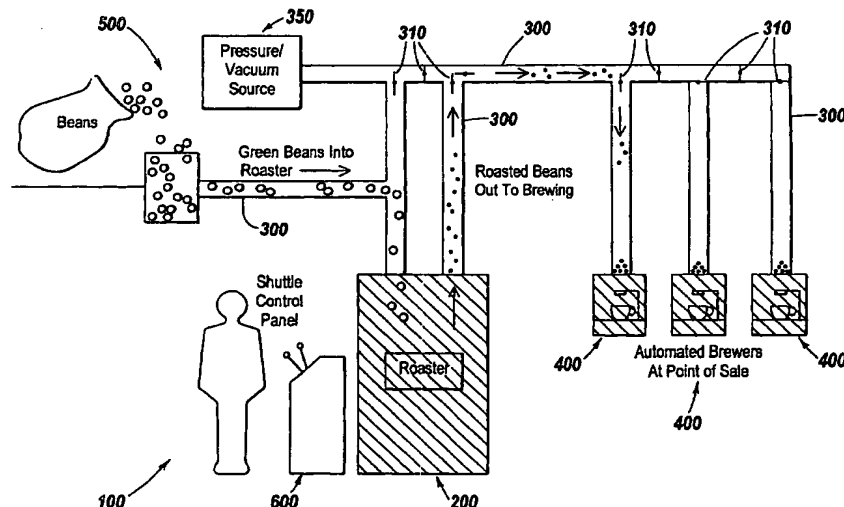
(74) Agents: RIKKERS, David, J. et al.; Lahive & Cockfield, LLP, 28 State Street, Boston, MA 02109 (US).

(88) Date of publication of the international search report:
31 December 2003

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COFFEE DISPENSING DEVICE AND METHOD



(57) Abstract: A coffee dispensing device is provided with a transport device (300) that couples various components for the processing of unroasted coffee beans together. For example a roaster (200) may be coupled to a grinding and brewing device (400) to enable the transfer of roasted coffee beans between the roaster and grinder/brewer. Also, the transport device may transfer the roasted coffee beans from a roaster to an output port (800) so that roasted coffee beans may be obtained. An automated coffee transaction device (ACTD) is also provided to automate aspects of the purchasing of coffee. A service delay projection calculator is also provided to estimate the expected wait time of a customer entering a queue.

WO 2003/062101 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/02069

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A47J 31/42

US CL : 99/290, 280, 286; 705/7

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 99/290, 280, 286, 279, 281, 282, 283; 705/7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ✓	US 3,153,377 A (BOSAK) 20 October 1964, see entire document.	1, 6-11
X ✓	US 5,094,153 A (HELBLING) 10 March 1992, see entire document.	12
X ✓	US 4,392,119 A (PRICE et al) 05 July 1983, see entire document.	13
A ✓	US 5,465,656 A (OGDEN) 14 November 1995.	

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

26 June 2003 (26.06.2003)

Date of mailing of the international search report

13 AUG 2003

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Reginald L. Alexander

Telephone No. 703-308-0661

Jean-Pierre
Paralegal